a processor using an iterative method to determine elements in an unmixing matrix by which the input signals are multiplied to produce the output signals, the unmixing matrix being limited to a finite impulse response and including at least one diagonal parameter set to a predetermined value; and

a neural network, coupled to said processor, to perform cumulant minimization after training and to form the output signals, said processor obtaining statistical independence of the output signals through repetition of a time-delayed decorrelation calculation to determine intrinsic values in the unmixing matrix until cross-correlations are substantially minimized with the intrinsic values used as start values for the cumulant minimization, the unmixing matrix being stabilized by projection onto a unit circle during the cumulant minimization process.

REMARKS

This Supplemental Preliminary Amendment is submitted to improve the form of the specification as previously amended, to change the title from what was used on the Declaration and Assignment to the title used in the Substitute Specification, and to add claims corresponding to the method and system disclosed in the application as filed.

It is respectfully requested that this Supplemental Preliminary Amendment be entered in the above-referenced application.

If there are any additional fees associated with filing of this Supplemental Preliminary Amendment, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

STAAS & HALSEY LLP

Date: 1/15/02

By: Richard A. Gollhofer
Richard A. Gollhofer
Registration No. 31,106

700 Eleventh Street, NW, Suite 500
Washington, D.C. 20001
(202) 434-1500

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